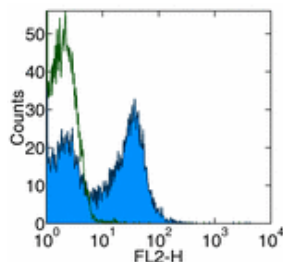


## Anti-Mouse CD154 (CD40 Ligand) Purified

Catalog Number: 14-1541

Also Known As: CD40L

RUO: For Research Use Only



Surface staining of PMA/Ionomycin-stimulated isolated T cells from mouse splenocytes with Anti-Mouse CD154 (CD40 Ligand) PE. Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse CD154 (CD40 Ligand) Purified


**REF** Catalog Number: 14-1541

Clone: MR1

Concentration: 0.5 mg/ml


Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The MR1 monoclonal antibody reacts with mouse CD154, a 39 kDa transmembrane glycoprotein also known as gp39 and CD40 ligand (CD40L). gp39 is expressed transiently by activated T cells and through its binding to CD40 on antigen presenting cells including B cells, monocytes/macrophages and dendritic cells, serves a crucial function in T-APC cognate interaction. gp39 interaction with CD40 transduces signals for T-dependent B cell activation and induces B cell cycle entry.

For staining for flow cytometric analysis, it is important to stimulate enriched T cells or enriched CD4 cells (using depletion strategy) prior to staining with MR1.

### Applications Reported

The MR1 antibody has been reported for use in flow cytometric analysis, and immunohistochemical staining. It has also been reported to inhibit binding of CD154 to CD40 and activation of B cells. (Please use Functional Grade purified MR1, cat. 16-1541, in functional assays.)

### Applications Tested

The MR1 antibody has been tested by flow cytometric analysis of resting and 6-8 hour activated splenocyte suspensions. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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#### Related Products

11-4111 Anti-Armenian Hamster IgG FITC

11-4317 Streptavidin FITC

12-4317 Streptavidin PE

13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)

14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)

17-4317 Streptavidin APC

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